WBLE-SL ► UECM1404-	-202206-EZZ ► Quizzes ► 202206UECM	114040E4b ▶ Review of preview	Update this Quiz		
Info Results Preview Edit					
202206UECM14040E4b Start again					
Review of preview					
Started on Thursday, 8 September 2022, 11:31 AM					
Completed on Thursday, 8 September 2022, 11:31 AM Time taken 9 secs					
Grade 0 out of a maximum of 10 (0%)					
1 🖢 Marks: 1	An annuity-immediate has payments	s of 1,000, 5,000 and 7,500 at the end of one, two and three years, respectively. Determine the convexity of the payments evaluated at i = 9%			
	Answer:	x			
	Make comment or override grade				
	Incorrect Correct answer: 7.44613				
	Marks for this submission	า: 0/1.			
2 🔽 Marks: 1	A liability consists of a series of 15 a used to value the assets and the liab	annual payments of 36,000 with the first payment to be made one year from now. The assets available to immunize this liability are 6-year and 12-year zero-coupon bonds. The annual effective interest rollity is 7.0%. The liability has the same present value and duration as the asset portfolio. Calculate the amount invested in the 6-year zero-coupon bonds.	ate		
	Answer:	X			
	Make comment or override grade				
	Incorrect Correct answer: 286446.26				
	Marks for this submission	n: 0/1.			
3 🔽 Marks: 1	The one-year spot rate is 7.8%. A tw	wo year 600 bond maturing at par, with 5% annual coupon, is currently selling for its par value. Detrmine the two-year spot rate			
	Answer:	V V			
		^			
	Make comment or override grade Incorrect				
	Correct answer: 0.05348	a. 0/1			
	Marks for this submission	1: 0/1.			
4 🕏	The yield rate on a one year zero-co	upon bond is currently 5% and the yield rate on a two year zero-coupon bond is currently 6%. The treasury plans to issue a two year bond with 7% annual coupons, maturing at 100 par value. Determin	ne.		
Marks: 1	the yield to maturity of the two year				
	Answer:	X			
	Make comment or override grade				

	orrect orrect answer: 0.0597 Harks for this submission: 0/1.			
5 * Marks: 1	the following are the prices of 100 zero-coupon bonds redeemable at par: Term to Maturity Price			
	Determine the one-year forward rate deferred 3 years			
	x x			
	ake comment or override grade ncorrect orrect answer: 0.067138 Marks for this submission: 0/1.			
6 ≥ Marks: 1	1000 par value bond with 7% annual coupons matures at par in 4 years. The following are given as the one-year forward rates deferred year n: $ \begin{vmatrix} $			
	Scenario X and Scenario Y have an equal probability of occurring. Calculate the expected present value of the bond payments.			
	nswer:			
	ake comment or override grade accorrect orrect answer: 1012.45 Marks for this submission: 0/1.			
7 🕏 Marks: 1	A perpetuity-immediate has annual payments of 1.11, 1.11 ² , 1.11 ³ , Determine the duration of this perpetuity at an effective rate of 22%.			
	nswer:			
	ake comment or override grade ocorrect orrect answer: 11.090909 flarks for this submission: 0/1.			
8 🗑	A company makes a loan and receives level annual repayments from the borrowers at the end of each year for 12 years. The effective rate of interest is 7.18%. What is the modified duration of the loan repayments?			
Marks: 1	nswer:			
	ake comment or override grade ncorrect orrect answer: 5.302435 Marks for this submission: 0/1.			
9 ☑ Marks: 1	n investment will return 3,000 in two years and 5,000 in five years. Determine the ratio of the convexity of the payments to their modified duration, evaluated at i = 5.6%.			
ridiks. 1	nswer:			

Correct answer: 5.0558
Marks for this submission: 0/1.

10 A company must make payments of 40 annually in the form of a 10-year annuity-immediate. It plans to buy two zero coupon bonds to fund these payments. The first bond matures in 2 years and the second bond matures in 9 years, and both are purchased to yield 12% effective. What face amount of 9-year bond should the company buy in order to be immunized from small changes in the interest rate?

Answer:

Make comment or override grade
Incorrect
Correct answer: 231.406975
Marks for this submission: 0/1.

Make comment or override grade

Incorrect

Moodle Docs for this page

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UECM1404-202206-EZZ